

Patent Abstracts of Japan

PUBLICATION NUMBER : 2003068468
PUBLICATION DATE : 07-03-03

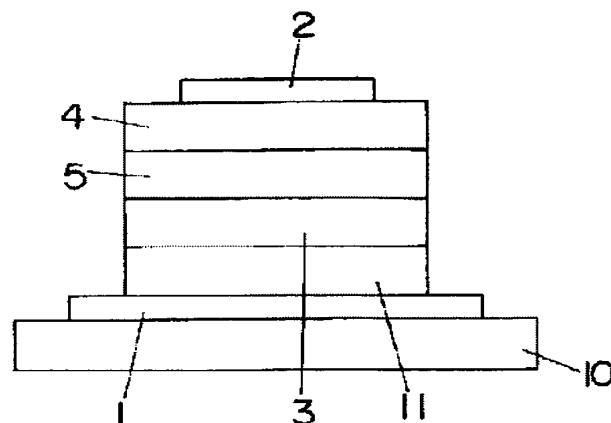
APPLICATION DATE : 28-08-01
APPLICATION NUMBER : 2001258735

APPLICANT : KIDO JUNJI;

INVENTOR : KISHIGAMI YASUHISA;

INT.CL. : H05B 33/22 H05B 33/04 H05B 33/14

TITLE : ORGANIC ELECTRIC FIELD
LIGHT-EMITTING ELEMENT



- 1 陽極
- 2 陰極
- 3 有機発光層
- 4 電子注入層
- 5 電子注入層

ABSTRACT : PROBLEM TO BE SOLVED: To provide an organic electric field light-emitting element superior in both life property and initial property.

SOLUTION: This is related to the organic electric field light-emitting element formed by installing an organic light-emitting layer 3 between a positive electrode 1 and a negative electrode 2. A layer 5 in which an electron-donating metal is doped on an organic compound having an electron mobility of 10^{-5} cm²/Vs or more and a layer 4 in which the electron-donating metal is doped on an organic compound having a glass transition temperature of 80°C or more are installed in this order from a side near the organic light-emitting layer 3 between the positive electrode 1 and the organic light-emitting layer 3. The layer 4 composed of the organic compound having the glass transition temperature of 80°C or more is high in heat resistance, and an influence of heat damage can be reduced in forming the negative electrode 1. Further, the layer 5 composed of the organic compound having the electron mobility of 10^{-5} cm²/Vs or more has high electron injection efficiency.

COPYRIGHT: (C)2003,JPO